

1638

RAW SEQUENCE LISTING DATE: 11/20/2000
 PATENT APPLICATION: US/09/637,086A TIME: 11:36:41

Input Set : F:\CottonRegAug2000.rpt
 Output Set: N:\CRF3\11202000\I637086A.raw

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NOV 29 2000

TECH CENTER 1600/2900

ENTERED

1 <110> APPLICANT: Fincher, Karen L.
 2 La Rosa, Thomas J.
 3 McCarter, David W.
 4 Pear, Julie R.
 6 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
 7 Plants
 9 <130> FILE REFERENCE: 38-21(51375)B
 11 <140> CURRENT APPLICATION NUMBER: 09/637,086A
 12 <141> CURRENT FILING DATE: 2000-08-11
 14 <150> PRIOR APPLICATION NUMBER: US 60/149,881
 16 <151> PRIOR FILING DATE: 1999-08-19
 18 <160> NUMBER OF SEQ ID NOS: 52949
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 226
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Gossypium hirsutum
 25 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-A10
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 29 caatagccaa gacattgact gatctgctgg ggctaaactg aagacgggag caggtctctg 60
 31 atacttcata aacccaactc ctactgctac gtctcagtgc gctctcatgg cagcgtcac 120
 33 atctggagat cagcataact catcaactac taacgcctaa ctactagacc atacattgag 180
 35 accctgctga ggtagtcacc taaaatagag gcccgattc tctata 226
 38 <210> SEQ ID NO: 2
 39 <211> LENGTH: 217
 40 <212> TYPE: DNA
 41 <213> ORGANISM: Gossypium hirsutum
 43 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-A11
 45 <400> SEQUENCE: 2
 47 tcatgattat gaaccgaag cgttgtaacc tctgcctcaa ttacaaatct acttggggga 60
 49 taatacatta gcgcaataa ctccatctcc qaaqataaag gtgtacaaca ttacctccat 120
 51 cctcgaagaa cgtggccaat tcaccggcgt catcatgcta tggaaagcca cacagggtgc 180
 53 tgatcaacta atcaaccacc taaactcacc gcaccct 217
 56 <210> SEQ ID NO: 3
 57 <211> LENGTH: 199
 58 <212> TYPE: DNA
 59 <213> ORGANISM: Gossypium hirsutum
 61 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-A9
 63 <400> SEQUENCE: 3
 65 ccaagcctg ttccaccctg acttgctctt cttgtcctct ggcaaggaca catcagctca 60
 67 ctatattcct gcgccccgc ttaacgtggt caacatcaact cgcctcctct acaaaagtgg 120
 69 ccaaacacca ctttcacat gctcttgtat gccacacaac tggctgatca actaaacatc 180
 71 tcagcttlat acaccgcta 199
 74 <210> SEQ ID NO: 4
 75 <211> LENGTH: 229
 76 <212> TYPE: DNA
 77 <213> ORGANISM: Gossypium hirsutum
 79 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-B10

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81 <400> SEQUENCE: 4
83 cggcgccgat gggcatgatt taatggagggc tgttggccct gatttctact gtgtccggca 60
85 qatctttgat ggtgaggggtg ctccagggagc tcacgattga attgtaacac ggtgttaaat 120
87 ctagaatcgc agatgtgacg qgggaaattt tacggaaaag aagggtctggg aaaataccac 180
89 gtgtcacaac ttctgtgcta tagaacatct ggaggcacca ctctcagtg 229
92 <210> SEQ ID NO: 5
93 <211> LENGTH: 375
94 <212> TYPE: DNA
95 <213> ORGANISM: Gossypium hirsutum
97 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-B11
99 <400> SEQUENCE: 5
101 cttgctaact gtctcttttcg catgggtggc tcagcggctc tgttgcgta ccgccgctca 60
103 tagagggcggg gagccaaagta ccgacttgtg caggttgttc gaaccacaa aggggcccgat 120
105 gacaaggcct accgatgcgt gtttgaagaa gaagactaat acggcaaat tgggatatca 180
107 ttatctaaag atctcatggg tatagctgga gaggctttat aatccaacat taccacaata 240
109 gggccttttg tgccttcaag gtggggacaa ctctatttt ttctcactct gtctgggcgt 300
111 taagtcttca acccccagtg gaagccttat attccagact tcaagctggc gtttgagcac 360
113 ttttgcaccc atgct 375
116 <210> SEQ ID NO: 6
117 <211> LENGTH: 162
118 <212> TYPE: DNA
119 <213> ORGANISM: Gossypium hirsutum
121 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-B9
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125 tagaaatgga tattgcaaca taagcaccgg aaactccttt gacaagtga aggaatgtta 60
127 tagctgacct tgatgatata attcgctaga ccttatgtgg aatggctatt gtttcacttg 120
129 atgggtgtgc catacacatg gtacagtacc aggacactac tt 162
132 <210> SEQ ID NO: 7
133 <211> LENGTH: 310
134 <212> TYPE: DNA
135 <213> ORGANISM: Gossypium hirsutum
137 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-C11
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141 ctactttctg caattgcgag aagaaacgag acgggggaaa tccaatggat ttggaaacgg 60
143 cgaagaaata ctggagaaaa ggagtgtggg ctgacggcga tgacaagaac gcctcaacca 120
145 tcaatggcat gccttctaga ttcttcgaaa acttcatcat gcaaggtctc catgttgacc 180
147 aaatcgtaaa ggttcgagtc ctttgcctca tgaaagtccc tctcgtttg ctgaacgctg 240
149 gtaattttct gcacggtgga gctactgcat cactgggtgga ttttgttga tcagcgggta 300
151 ttacaccta 310
154 <210> SEQ ID NO: 8
155 <211> LENGTH: 286
156 <212> TYPE: DNA
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159 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-C12
161 <400> SEQUENCE: 8
163 gacgattctt gttttcttca ttgtaagggc ttatggggac tacatcatat ctagtgtgtg 60
165 tcgtttctta cccagagctg ttttaatgga ccttgaacca tgaacatgg atagcttgct 120
167 tactggtcg tacggacaac ttttagacc tgattactac attttggtc aaatggatc 180
169 taggaataac tcgggctaag ggtcattaca ctgaatgagc tccatcgatt gattcgggtc 240

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171 ttgatgttgt tcttaaagan actaagaatt gtgatttqctt acaaag      286
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175 <211> LENGTH: 164
176 <212> TYPE: DNA
177 <213> ORGANISM: Gossypium hirsutum
179 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-C9
181 <400> SEQUENCE: 9
183 ccgctctaga actagagctt ccgcatccct qgagctgtac qaatccagca cgagctcaat      60
185 tgctgccagt agacaagacg caaggggtgct ctccaattga tgcgagatgc tcattgccaa      120
187 ttccaactaa ctacttgatc aattcattcg atactacaca gctt.           164
190 <210> SEQ ID NO: 10
191 <211> LENGTH: 337
192 <212> TYPE: DNA
193 <213> ORGANISM: Gossypium hirsutum
195 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-D10
197 <400> SEQUENCE: 10
199 aattcgagac gatttgcgac tgagttctgg accacattct tctggaagcg cgactactct      60
201 tcaactatgt acattccacg agataaggat accgatagac cctaattgatc tgactttcgt      120
203 tgaatacgaa gccqaggacg tgggcgttta cgctatgcag atgaatgttg gccatcatac      180
205 tacatataac cgaaccttgc aagccacgat gctcatgcaa qagatgtcta tggaaatccc      240
207 tggcaattca tccatgtttt ctgcagagac aactacaga gcaaggtttt accaggggtgt      300
209 agtgaacatc atagctaacc tagaggagct gaagaag                    337
212 <210> SEQ ID NO: 11
213 <211> LENGTH: 362
214 <212> TYPE: DNA
215 <213> ORGANISM: Gossypium hirsutum
217 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-D11
219 <400> SEQUENCE: 11
221 tagaactatg tggatctcct ggtctacatg atttcgagcc gatttgttac atctgtctga      60
223 actatacatt tggggtcata tctatataca caagaatttt cgaaaactcat aatgttgtaa      120
225 tcaacgcctc caatggatgt agaacgattg caaagcatta tgaagaagac aatcacaaca      180
227 cacaattttt acatgaaaat tcttttggga aaaaactatg qactgatgaa taataattca      240
229 ctaaagttag aaaaactaatg acacatgagg agtctaggct acatctatct aaaggttgaa      300
231 ataccctgtt ctaatacaag tcatatgata gaagtacttt atggactcaa cttgtgcaat      360
233 at                                                                362
236 <210> SEQ ID NO: 12
237 <211> LENGTH: 345
238 <212> TYPE: DNA
239 <213> ORGANISM: Gossypium hirsutum
241 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-D12
243 <400> SEQUENCE: 12
245 tctgtttcct aatcaagatg agaacactgt gtacggggag ccttctgcgc ctcaaccacc      60
247 acggttccat gtgcattcct ttgcatgac cctcactgtc tcagattcat gcaacctatg      120
249 tgggttttct gcgctcatgc ggcattgcaga ttaatgtgtt ccaccattgg acatgtcact      180
251 gcaacctaca acccaggagt tgggtgttta ggatatgcat ggcattagat ggcgattcca      240
253 gcataatttc aggggtgaac cactattgca cttgcttcaa agcggatgga gtgttcattgt      300
255 tagctcctcc aggttatgtt ctagggatgc tttaatatat tttag                    345
258 <210> SEQ ID NO: 13
259 <211> LENGTH: 233

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260 <212> TYPE: DNA
261 <213> ORGANISM: Gossypium hirsutum
263 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-D9
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269 cttagttaga agaaacgtga cgggggaagt ccaatggatt tggaaactgt gaataaatac 120
271 ttggaqaaaq gatttttggc tgacgqqaat tacatqaact ccttaccat caatggactt 180
273 ccttcattat tcttcgaaaa cttcatcatg catggtctct atgtagacca aat 233
276 <210> SEQ ID NO: 14
277 <211> LENGTH: 327
278 <212> TYPE: DNA
279 <213> ORGANISM: Gossypium hirsutum
281 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-E12
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287 cggctacacc aaatagcgat gcacatcact acctgttctt atcatcatgt gtccactcca 120
289 gctatccaag cctttgtttt cgcacccttt catctactc cggcccatcc aacaccctac 180
291 gatagttagc cctatccgcc gttaaagtca tctgtctccg tgcctgttaa ggtctaaact 240
293 acctgtctac tagtgtgaca tagtacaaca tgaggggaact agtcgcactg attgactgag 300
295 tggagcaaat agattagtct atgqatg 327
298 <210> SEQ ID NO: 15
299 <211> LENGTH: 209
300 <212> TYPE: DNA
301 <213> ORGANISM: Gossypium hirsutum
303 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-E9
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309 aatacatcat gatgtcctaa acgectacaa cggatgaaga atcactatgc tggcatctat 120
311 tataagaaaa tattgatcac acagacattt tcatgataat tctcctggga aaaaactgtc 180
313 ttctgattga ttaaaaaaac actaagggtt 209
316 <210> SEQ ID NO: 16
317 <211> LENGTH: 393
318 <212> TYPE: DNA
319 <213> ORGANISM: Gossypium hirsutum
321 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-F10
323 <400> SEQUENCE: 16
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327 gcatgacttt attaaatgca taacacatag tgcattgtac aattaaaaga tgttgattaa 120
329 taatgcaaaa catataattaa agatgcataa aataaacaag acataattaa aagctgaaaa 180
331 attaatataa ctaaaacaac aaccacatgc aaaacattgt atggacatgg gatgttatct 240
333 tgggtccaat aagggttggg catctcatgt tcagcccaaa cttgtgtaat taggcccac 300
335 atcgaccctt taaacttctt tgatctagca catgttataa acccgatgag aatttcaatt 360
337 ggatectctc ttgaaatagg caacttagag gtt 393
340 <210> SEQ ID NO: 17
341 <211> LENGTH: 338
342 <212> TYPE: DNA
343 <213> ORGANISM: Gossypium hirsutum
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347 <400> SEQUENCE: 17

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349 aaaatgtgag cattgaagac accaaagggtc ggcattgaggg tcgtttgtga agggattaaa 60
351 gclacggggc cgaaggcaaa atcagcaacc acagcttcaa ctctaatgc aaatgttaag 120
353 qttgatttga gactcaagat ctggtaattg actatctgat cgacgagaat attttgagaa 180
355 agagaatcaa tgggtgaagaa aaaggtttgt tgtttatgat attttattac tcctgttatg 240
357 gttgttattt tcttaagat gtttcgatat ttttttatgg aggcattatg tttycaaatt 300
359 ggggtatctg atcgtataag gtatagaaaa atgtcatg 338
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363 <211> LENGTH: 395
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365 <213> ORGANISM: Gossypium hirsutum
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375 tcattcatga cattggtgag aagatcgagg aaacaatcgg cttyggcaag cctactgag 180
377 atgtatctga gattcacctc ccttgatca atcttgagaa agcagaaatt qtcgttgatg 240
379 tcttcataaa qaaccacaac cctgttccaa tccccctcgt cgacattgac tacctcattg 300
381 aaagtgatgg tagaaaacac ctctcaagct tgattccaga tgcgtgaacc atccatgctc 360
383 atggtgagga gactgtcaaa ataccagtta ctttg 395
386 <210> SEQ ID NO: 19
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388 <212> TYPE: DNA
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397 gcatgactct ttttaattga aaacgcatta cgcattgtac ggtaactaga tgcagggcaa 120
399 tattgccaac tgttacctac cgttcgctgc cgtataccag acctgactct aagctgtctt 180
401 cctaattggg ctttcacctc 200
404 <210> SEQ ID NO: 20
405 <211> LENGTH: 231
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415 acaaatgtat gtaaagaaga tgaacattaa agcccaaaac tccaatcata tcttaagctt 120
417 gtttctgagt ctataattag tgaacacttc tgtattacaa cttatatata tatatattag 180
419 ttcaattctg gtaaaaaaaa aaaaacatgc tgaattat ataaaaataa a 231
422 <210> SEQ ID NO: 21
423 <211> LENGTH: 158
424 <212> TYPE: DNA
425 <213> ORGANISM: Gossypium hirsutum
427 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-G11
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433 gcgtcatatg ctacatcaac agattcatta ccaacgaac gtacgtatag gagaacgaca 120
435 tacactgcta cccttgcaat ctteagatatt attaccat 158
438 <210> SEQ ID NO: 22

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PyI:

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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L:1087 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:1793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:2319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105
L:3503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156
L:4099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:4353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195
L:4359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195
L:4405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:197
L:4435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:198
L:4569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204
L:4659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208
L:4711 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210
L:4855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:217
L:5043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:225
L:5075 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:226
L:5115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:228
L:5299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236
L:5303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236
L:5499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245
L:5549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:247
L:5809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:259
L:5839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260
L:5841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260
L:6009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:268
L:6671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:299
L:6811 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:305
L:6905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:309
L:7139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:319
L:7583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:339
L:7585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:339
L:7757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:346
L:7897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:352
L:8207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366
L:8255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:368
L:8391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:374
L:8557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:382
L:8623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:385
L:8669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:387
L:8695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:388
L:8719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:389
L:8747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:390
L:9053 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:404
L:9691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:434
L:10541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:475
L:11003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:496
L:11109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:501
L:11201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:505
L:11319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:510

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L:11447 M:341 W: (46) "u" or "Xaa" used, for SEQ ID#:516
L:11485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:518